SIEMENS

SIREMOBIL Compact L

SP

System - Manual

Start-up Instructions

Siremobil Compact L
from serial no. > 03000

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Document revision level

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Required tools, measurement and auxiliary devices

NOTE

All tools, measurement and auxiliary devices with the exception of those marked "*", are listed along with their specifications in the STC (Service Tools Catalogue).

- Tool kit *
- Protective conductor meter
  e.g. Safety tester Unimet 1100 — 51 38 727 Y0766
- Leakage current meter
  e.g. Safety tester Unimet 1100 — 51 38 727 Y0766
- Dynamic test kit — 37 90 156 X1963
- Cu filter set — 44 06 120 RV090
- Densitometer
  e.g. DensiX-LE 52003 — 49 51 286 Y0388
- X-ray filter set, 25 mm AL, e.g. — 97 98 596 G5321
- Resolution tests — 28 71 820 RE999

Notes and symbols

Emphasized texts in technical documentation have the following meaning:

⚠DANGER	**DANGER indicates an immediate danger that if disregarded will cause death or serious physical injury.**
⚠WARNING	**WARNING indicates a possible danger that if disregarded can cause death or serious physical injury.**
⚠CAUTION	**CAUTION used with the safety alert icon indicates a possible danger that if disregarded will or can lead to minor or moderate physical injury and/or damage to property.**
NOTICE	**NOTICE used without the safety alert icon indicates a possible danger that if disregarded may or will lead to an undesirable result or state other than death, physical injury or property damage.**

Safety information

General safety information (on available documents)

⚠WARNING

Danger of possibly fatal physical injury and property damage!
Observe

- **the product-specific safety information in these instructions,**
- **the general safety information in instructions TD00-000.860.01... and**
- **the general safety information according to ARTD Part 2.**

Noncompliance can lead to death, physical injury or property damage.

General electrical safety information

⚠WARNING

Electrical voltage!
Noncompliance can lead to death, physical injury or property damage.

Once the system covers have been removed, voltage-conducting parts become contactable. To prevent danger, always disconnect the system from the line voltage before removing the covers. To do this, pull the power plug or switch the system power supply off and secure the power switch against accidental activation.

If an uninterruptible power supply (UPS) is installed in the system, the power supply of the UPS must be switched free of voltage in addition or the voltage output plug must be pulled out.

If service in connection with electrical voltage is required, the generator safety information in instructions TD00-000.860.01... must be observed.

Safety information for radiation

⚠WARNING

X-ray radiation!
Noncompliance can lead to illnesses, irreversible damage to body cells and the genotype, severe injuries and even death.

In work on the system in which radiation must be released, the radiation protection directives and the rules for radiation protection according to ARTD 02.771.02 must be complied with.

Note:

- **Use available radiation protection devices.**
- **Wear radiation protection clothing (lead apron).**
- **Keep your distance from the radiation source as large as possible.**
- **Release radiation only if necessary.**
- **Set the radiation activity as low as possible. (low kV and mA values, short radiation time)**
- **Release radiation for as short a time as possible.**

Checks in which radiation must be released are identified by the radiation warning symbol.

Laser light localizer option

⚠CAUTION

Laser radiation!
Non-compliance can lead to injuries, especially of the retina of the eye and thus to irreversible impairment of vision.
This product contains lasers of class 2.
(USA: Laser class 2)
Observe the safety information of the ARTD-002.731.03.
When using the laser light localizer do not look directly into the laser beam.

NOTE

There is no direct danger for the eye (lid closing reflex of the eyes).
Nevertheless, do not look directly into the laser beam.

Information on logbook

The logbook is located in the monitor carriage behind the keyboard. To access it, remove the cover on the back of the monitor trolley.

Notes on adapting the power plug to the local conditions

The customer can have the power plug on the supplied power cable replaced with an appropriate local plug by an electrotechnician, provided that:

- the power plug used can transfer the power required for operating the SIREMOBIL (see current and voltage ratings stated on the supply voltage plate on the back of the monitor trolley)
  and
- the required internal line resistance is obtained (see Planning Guide of the system)
  and
- fuse selectivity is ensured in compliance with the relevant national standards.

In addition, the customer needs to make sure (e.g. by labeling or constructive measures) that the system is not connected to an unsuitable mains supply.

Finally, protective conductor tests must be performed and documented.

Information on line voltage

The line voltage values for the system upon delivery are shown on the supply voltage plate or in the user manual.
If necessary, adapt the system to the local conditions in accordance with the service instructions / wiring diagram.

Ensure compliance with the "Information on system leakage current."

⚠WARNING

Electrical voltage!

Non-compliance can lead to severe physical injuries up to death!

The internal uninterruptible power supply of the system (UPS) supplies some components with voltage - even with the system switched off or the mains plug of the system withdrawn.

Before the system is programmed to the local mains voltage / mains frequency, separate the system from the power supply (pull out the mains plug) and in addition pull out the voltage output plug of the UPS.

Notes on the protective conductor resistance test

Observe the statements in the safety engineering rules for installation and maintenance (ARTD-002.731.17...).

The protective conductor resistance of 0.2 ohms must not be exceeded.

First measured value

In system which are delivered from the factory completely tested, the protective conductor resistance test has already been performed and the measured values have been recorded in the test report of the system.

The measurements have been performed with the measuring methods and equipment recorded in the test report of the system.

The test report is an integral part of the supplied documentation.

If during the installation of the system no covers were opened and no additional components (e.g. options) were installed or modified, then the values recorded in the test report with statement of the measuring point (e.g. cover of basic unit or cover of image intensifier) can be transferred as first measured values into the protective conductor report.

If during the installation of the system the mains plug was changed, covers were removed or additional components installed or modified, then the values stated in the report are invalid.
The values must be marked as invalid. For this purpose cross through the values, enter the note "Value invalid" and confirm with name, date and signature.

The protective conductor test must be performed anew after the completion of all work.

In systems without reported measured values for the protective conductor test in the test report of the system, the protective conductor test must be performed after completion of all work.

Measurement

Measurement must be performed according to DIN VDE 0751, Part 1 (see ARTD Part 2). In this case measure the protective conductor resistance in the normal operating condition of the system to all conductive parts that can be touched.

It must be assured that control cables or data cables between the components of the system do not simulate any protective conductor connection.

During the measurement the power cable and additional connection cable with integrated protective conductor (e.g. monitor cable between basic unit and monitor trolley) must be moved section by section to detect cable breaks.

The protective conductor resistance must not exceed 0.2 ohms.

The values must be recorded as first measured values in the protective conductor resistance report stating the measuring points.

In addition the measuring method and the measuring instrument used (designation and serial number) must be documented.

Separate the page with the report from these instructions and file it in the system folder of logbook, "Reports" register.

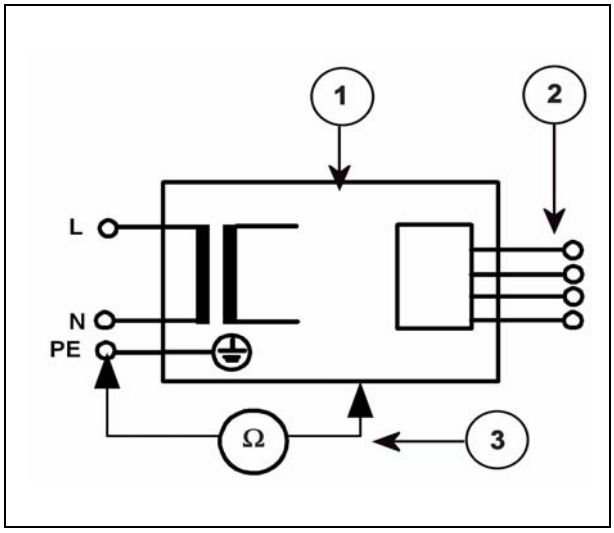

Fig. 1 Measuring circuit for measuring the protective conductor resistance in systems that are separated from the power supply according to DIN VDE 0751-1:2001-10, Fig. C2.
1 = System
2 = Application part (not available)
3 = Measuring arrangement (integrated in the measuring instrument)

Repeat measurement

Perform the protective conductor resistance measurement anew in the case of maintenance or repairs.

Document and assess the values determined in the repeat measurement.

Perform the measurement according to DIN VDE 0751, Part 1 (see ARTD part 2). In this case measure the protective conductor resistance in the normal operating condition of the system to all conductive parts that can be touched.

It must be assured that control cables or data cables between the components of the system do not simulate any protective conductor connection.

During the measurement the power cable and additional connection cable with integrated protective conductor (e.g. monitor cable between basic unit and monitor trolley) must be moved section by section to detect cable breaks.

The protective conductor resistance must not exceed 0.2 ohms.

The values determined in the repeat measurement must be recorded in the protective conductor resistance report stating the measuring points and assessed.

In addition the measuring method and the measuring instrument used (designation and serial number) must be documented.

NOTE

For the assessment the first measured value and the values documented during previous maintenance or safety checks must be compared with the measured values.
An abrupt rise of the measured values, even if the limit of 0.2 ohms is not exceeded, indicates defects in the protective conductor connections (protective conductor or contacting).

Notes on system leakage current measurement

Observe the statement in the safety engineering rules for installation and maintenance (ARTD-002.731.17...).

⚠WARNING

Electrical voltage!
Non-compliance can lead to severe injuries up to death.

The system leakage current measurement may be performed for units of protective class I only after the protective ground wire test has been passed.

First measured value

In system which are delivered from the factory completely tested, the system leakage current test has already been performed in the factory and the measured values have been recorded in the test report of the system.

The measurements have been performed with the line voltage, line frequency, measuring method and equipment recorded in the test report of the system.

The test report is an integral part of the supplied documentation.

On agreement of the line voltage and the line frequency, the value recorded in the test report must be transferred as first measured value into the system leakage current report.

If the local line voltage or line frequency deviates from the condition on delivery of the system, or if nor measurement was performed and recorded in the factory, then perform the system leakage current measurement.

If the local line voltage or line frequency deviates from the condition on delivery of the system, then the values stated in the test report are invalid.
The values must be marked as invalid. The reason for the re-determination of the first measured value must be documented and confirmed with date, name and signature.

The system must be set / programmed to the local line voltage / line frequency before the measurement.

In systems without recorded measured values for the system leakage current measurement in the test report of the system, perform the system leakage current measurement after completion of all work.

Measurement

Perform the measurement according to DIN VDE 0751, Part 1 (see ARTD-002.731.17...) and record the determined value as first measured value.

Measurement of the system leakage current according to the differential current method (measuring arrangement according to Fig. 2) should be preferred, since no danger for the measuring person and other persons arises during the measurement.
However, observe the minimum resolution of the leakage current measuring instrument and additional manufacturer's data which restrict the use of the measuring instrument.

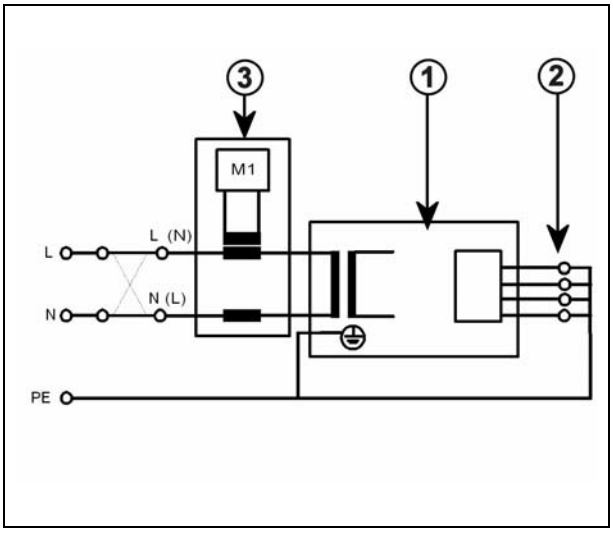

Fig. 2 Measuring circuit for measuring the system leakage current according to the differential current method according to DIN VDE 0751-1:2001-10, Fig. C6 for protective class I.
1 = System
2 = Application part (not available)
3 = Measuring arrangement (integrated in the measuring instrument)

If the direct measurement of the system leakage current is used (measuring arrangement according to Fig. 3), the system must be set up insulated during the measurement and must not be touched during the measurement.

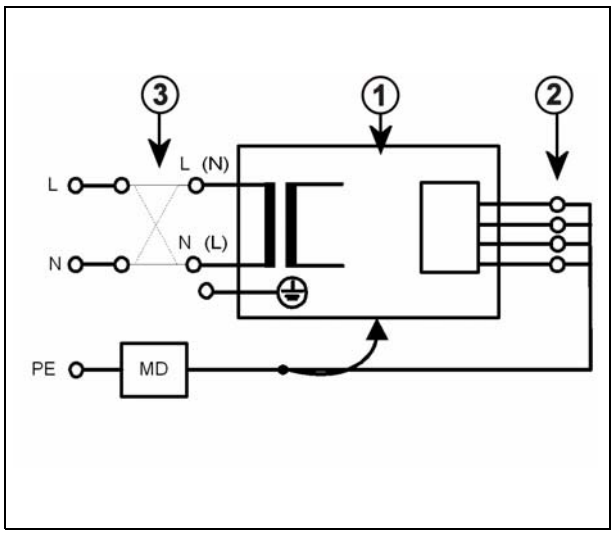

Fig. 3 Measuring circuit for the direct measurement of the system leakage current according to DIN VDE 0751-1:2001-10, Fig. C5 for protective class I.
1 = System
2 = Application part (not available)
3 = Measuring arrangement (integrated in the measuring instrument)

⚠WARNING

Electrical voltage!
Non-compliance can lead to severe injuries up to death.
In the direct measurement of the system leakage current (measuring arrangement according to Fig. 3) no housing parts of the system may be touched during the measurement.
Access to the system for third persons must be prevented.

The system must be switched on during the measurement. Measuring instruments with automated measuring sequence must therefore be set to manual measurement.

Enter the highest value as first measured value in the system leakage current report.

This value must not exceed the permissible leakage current values according to DIN VDE 0751-1:2001-10, Table F.1, line "system leakage current for devices according to the remarks 1 and 3", of 2.5 mA.

Measure and record the current line voltage. If the measured line voltage deviates from the nominal voltage, correct the measured value to the value that corresponds to a measurement at the nominal value of the line voltage. Document this in addition.

Document the measuring method (differential measurement or direct measurement) and the used measuring equipment (designation and serial number).

Separate the report page from these instructions and file it with the existing reports in the system folder or logbook.

Repeat measurement

In the case of maintenance or repairs in the primary circuit of the power supply unit (e.g. repairs to the power-up circuit or replacement of the mains filter), perform the system leakage current measurement anew.

The same measuring conditions as in the first measurement apply.

Document the highest value determined in the repeat measurement in the available system leakage current report and assess it.

This value must not exceed the permissible leakage current values according to DIN VDE 0751-1:2001-10, Table F.1, line "system leakage current for devices according to the remarks 1 and 3", of 2.5 mA.

Measure and record the current line voltage. If the measured line voltage deviates from the nominal voltage, correct the measured value to the value that corresponds to a measurement at the nominal value of the line voltage. Document this in addition.

Document the measuring method (differential measurement or direct measurement) and the used measuring equipment (designation and serial number).

.

NOTE	**For the assessment the first measured value and the values documented during previous maintenance or safety checks must be compared with the measured values. An abrupt rise of the measured values, even if the limit of 2.5 mA is not exceeded, indicates defects in the primary circuit of the mains voltage supply (insulation damage, moisture damage, defective interference suppressor, etc.)**

Checking the temperature indicator

Check the temperature indicator on the exterior housing of the I.I.

- If the inner square field of the indicator is white, the I.I. was not subject to excess temperature. Remove the temperature indicator.
- If the indicator is discolored (inner field black), proceed according to IQ document RXD0-000-038.01...

Visual checks

- The system shows no damage.
- All parts are correctly fastened.
- All moving parts are free running.

Options

Options that have not yet been installed in the factory must be installed and started up in accordance with their enclosed documents.

Information on country-specific programming

Fluoroscopy time limit

- According to E DIN IEC 62B/293/CDV, the fluoroscopy time limit is programmed to switch off radiation after 10 minutes of fluoroscopy. The buzzer sounds after 5 minutes of fluoroscopy. In countries not subject to E DIN IEC 62B/293/CDV, the fluoroscopy time limit with automatic switch off of radiation can be set to 5 minutes (buzzer sounds after 4.5 minutes of fluoroscopy) or 10 minutes (buzzer sounds after 9.5 minutes of fluoroscopy), or no automatic switch off of radiation can be selected (buzzer sounds after 4.5 minutes of fluoroscopy) using the service PC. Compliance with the applicable laws of the country must be ensured.

Audible signal for fluoroscopy

- The audible signal for fluoroscopy is disabled when the Siremobil Compact L is delivered. Therefore, an audible signal will not sound during fluoroscopy. If country-specific regulations require that an audible signal sound during fluoroscopy, it can be programmed via the service PC. Corresponding parameter: "Buzzer and block time settings" - "Buzzer mode (FL / IFL / DR)".

Audible signal for direct exposure

- An audible signal sounds when radiation release is completed for direct exposures. If country-specific regulations require that an audible signal sound during radiation release, it can be programmed via the service PC. Corresponding parameter: "Buzzer and block time settings" - "Buzzer mode (CEX)".

Memoskop C / CE / C-SUB, country-specific configurations

- The following parameters can be programmed to comply with country-specific requirements and should be modified accordingly on-site:

User Setup:	"Set date / time" "Hospital name"
Programming:	Refer to the operating instructions for SIREMOBIL Compact L
Technical Setup:	"Date / Time format" Check "Product Name": SIREMOBIL Compact L Check "Serial Number": The SIREMOBIL Compact L serial number must be entered.

Programming the parameters:
Refer to the service instructions for SIREMOBIL Compact L,
section "overview of parameter set for Memoskop C/CE."

Backup Memoskop C/ C-E/ C-SUB parameters

- After the customer-specific programmings, save these with the aid of the Memoskop Service Software on floppy disk and file this in the log book or system folder.

MEMOSKOP CX operation

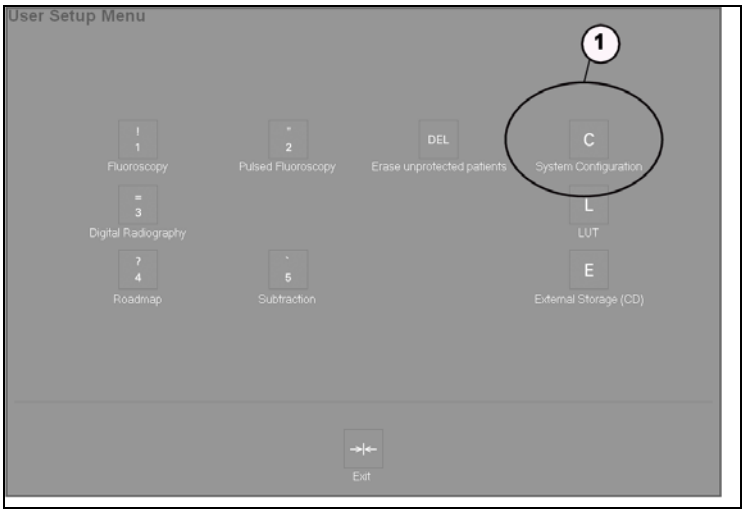

Fig. 4 Operation example 1

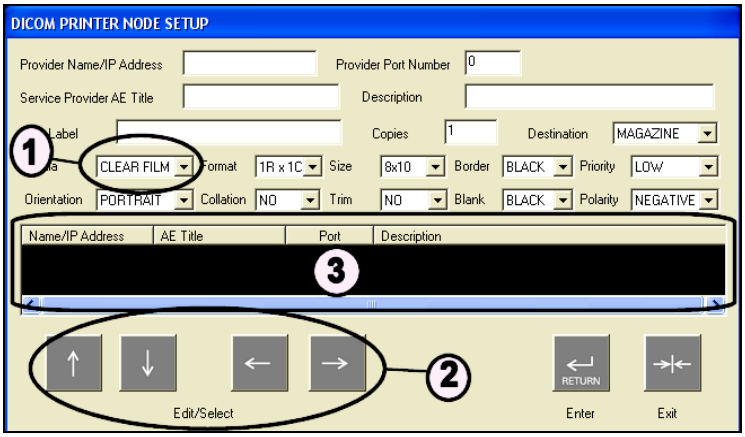

Fig. 5 Operation example 2

Selecting User Setup	- Press "CTRL" + "U" keys simultaneously.
Selecting Technical Setup	- Press "CTRL" + "T" keys simultaneously. - Then enter the password and press "Return".

Selecting a submenu	- Press the relevant key (number or letter) displayed above or on the right next to the menu description. Example (1/Fig. 4), User Setup main menu: Pressing the "C" key opens the "System Configuration" submenu.
Closing a submenu	- Press the "Home" key. - If data were changed, a safety prompt is displayed. - If the changes should be saved, press the "Return" key. - If the changes should be rejected, press the "Home" key.
Changing between the input fields in a submenu	- Cursor keys UP DOWN LEFT RIGHT, see also (2/Fig. 5).
Selecting / deselecting checkboxes in a submenu (setting / removing check mark)	- Select the checkbox with cursor keys. - Press "Return" key.
Selecting / deselecting list boxes in a submenu	- Select the list box with cursor keys. - Press "Return" key.
Selecting an entry in a list box (1/Fig. 5)	- Mark the list box with cursor keys. - Open list box with "Return". - Select desired entry with UP DOWN cursor keys. - Confirm selection with "Return".
Transferring data records into text fields (3/ Fig. 5)	- Press "CTRL" + "A" keys simultaneously. Example (3 / Fig. 5), DICOM Printer Configuration: After entry of the DICOM Node data and setting the list box entries, these are transferred into the text field (3/ Fig.) as data line by pressing the "CTRL" + "A" keys.

Changing data records, displayed in text fields (3/ Fig. 5)	- With cursor keys select the data line in the text field (3/ Fig. 5) to be changed. - With "Return" the data are also entered in the text fields and list boxes located above. - Select the text or list box to be changed with the cursor keys. - Change text or open list box with "Return". Select another entry with the cursor keys and press the "Return" key. - Press "CTRL"+"A" keys simultaneously. - An additional data line is displayed in the text field (3/ Fig. 5). If the old data line is no longer required, this can be deleted.
Deletion of data records displayed in text fields (3/ Fig. 5)	- Select the data line to be changed in the text field 3/ Fig. 5. - Press "CTRL" + "D" keys simultaneously. - The data line is deleted.

Memoskop CX 200 configurations

- Change the following parameters, if necessary, on site:

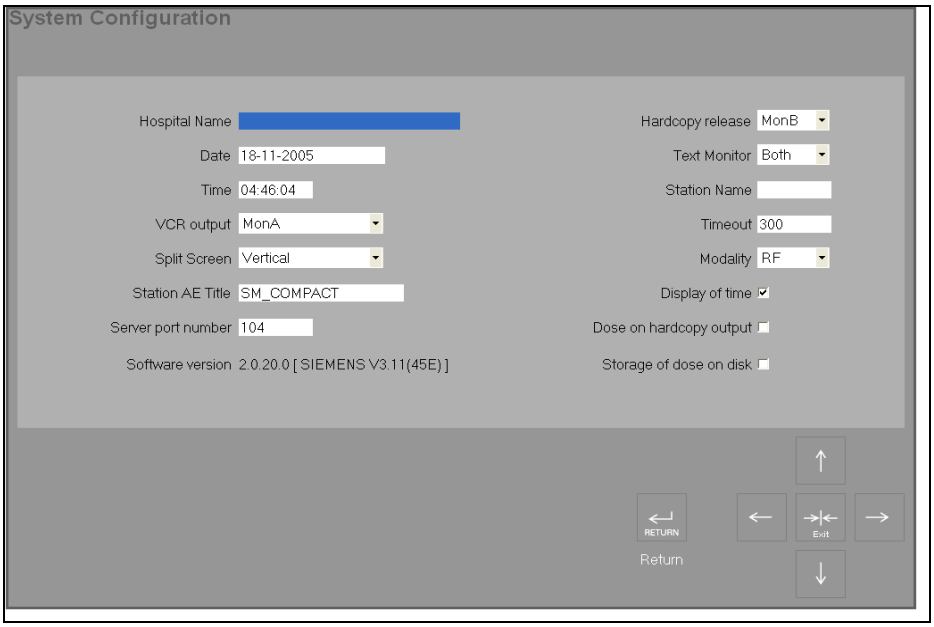

Fig. 6 User Setup DICOM settings

User Setup "Set date/time"
System Configuration: "Hospital name"

Programming:
Refer to SIREMOBIL Compact L operator manual

Technical Setup Check "Date / Time format"
Display Mode Check "UI Language"

Technical Setup Check "Product Name": SIREMOBIL Compact L
System Parameters Check "Serial Number": The SIREMOBIL Compact L System serial number must be entered.

You will find an overview of all Memoskop CX200 parameters in the SIREMOBIL Compact L service instructions in the paragraph with the heading "Overview of Memoskop CX200 parameter set".

Memoskop CX 200 DICOM network configurations.

NOTE

**Skip this section if DICOM function is not present.
Continue with Backup Memoskop CX200 Parameters**

- If the DICOM option is available, adapt the following network configurations to the customer-specific network.

DICOM system-relevant entries

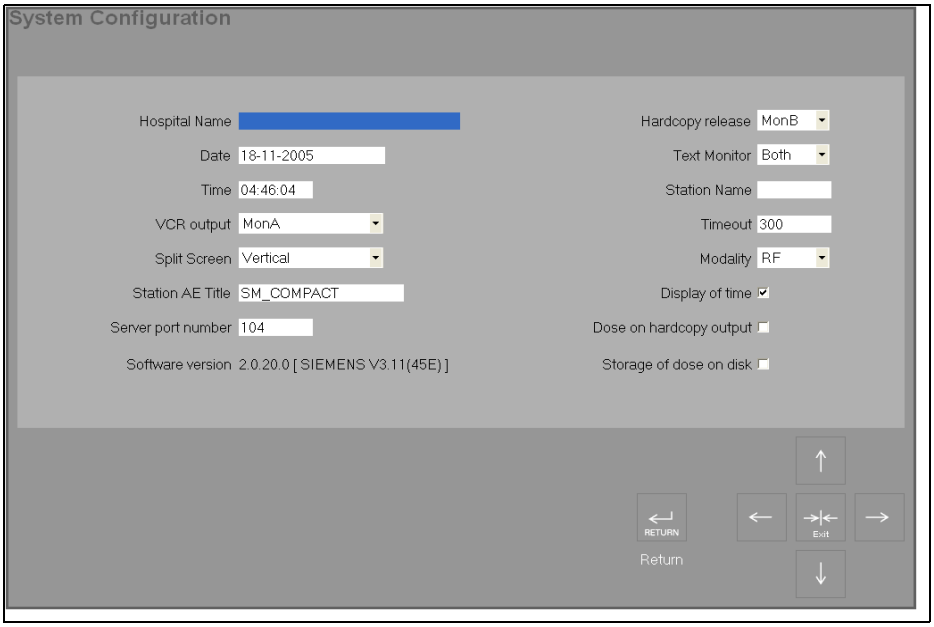

Fig. 7 User Setup DICOM settings

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NOTE

If the DICOM option is not enabled (no license available or dongle not plugged in), the network-relevant fields "Station AE Title" and "Station Name", etc., are displayed with a gray background and cannot be edited.

- Select the User Setup (CTRL + U).
- Select "System Configuration".
- Enter the corresponding data and confirm by pressing the Return key.
- Exit the User Setup again.

User Setup **System Configuration:**	Station AE Title	AE Title of the SIREMOBIL Compact L default: SM_COMPACT
	Station Name	Department designation or other identifier, used as search criterion for determining worklists for this department. The field can also remain blank.
	Server Port Number	default: 104 Change only on administrator's instructions.
	Timeout	default: 300 (in seconds) Change only with network problems caused by timeout.
	Modality	Modality designation of the transferred DICOM images default: RF Possible: RF, XA, SC Change as required.

Network system-relevant entries

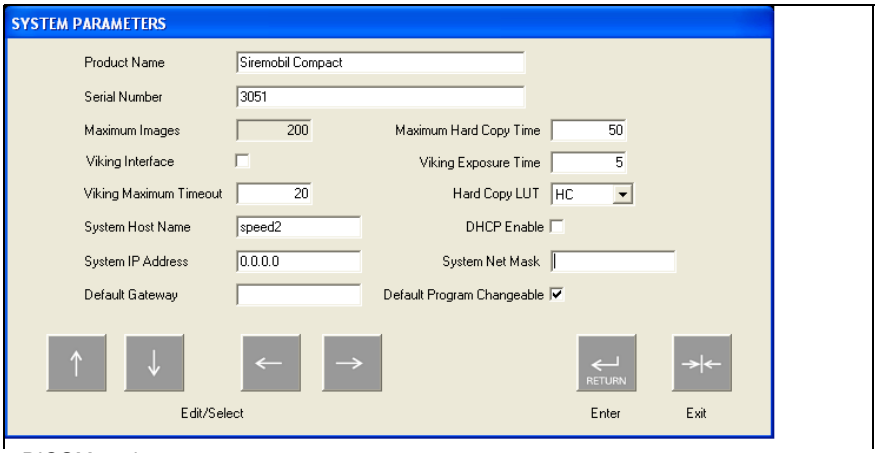

Fig. 8 User Setup DICOM settings

- Select the Technical Setup.
- Select "System Parameters".
- Enter the corresponding data and confirm by pressing the Return key.
- Close the "System Parameters" window again.

Technical Setup System Parameters	System Host Name	Host Name TCP/IP network The default entered name can be changed.
	System IP Address	IP address (e.g. 192.168.20.1)
	System Net Mask	Subnet Mask (e.g. 255.255.255.0)
	Default Gateway	IP address (e.g. 194.202.12.1
	DHCP Enable	Do not use DHCP if at all possible (check mark not set). Change only on administrator's instructions.

DICOM Storage Node entries

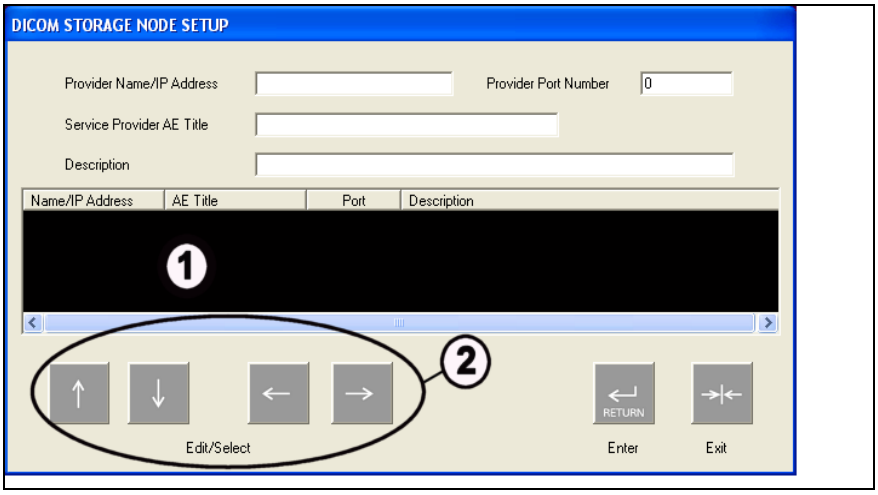

Fig. 9 User Setup DICOM settings

The Technical Setup is still open.

- Select "DICOM Store Setup".
- Enter the corresponding data and confirm in each case by pressing the Return key.
- After the entry of the required data for a DICOM Storage Node, press the keys "CTRL + A" simultaneously. The data are transferred to the text field (1/Fig. 9).
- After entry of the first DICOM Storage Node additional DICOM Storage Nodes can be entered.
- Close the "DICOM Storage Node Setup" window again.
- Confirm the prompt for saving the data by pressing the Return key.

Technical Setup System Configuration DICOM Storage Node Setup	Provider Name / IP Address	IP address of the first DICOM Storage Nodes (e.g. 192.168.20.2) When using DHCP enter the host name of the DICOM storage node.
	Provider Port Number	104 (default) Change only on administrator's instructions.
	Service Provider AE Title	AE Title of the first DICOM Storage Node (e.g. DICOM_Archiv)
	Description	Name of the Storage Node, displayed in the user menu of the Memoskop CX 200
	1024 Lines	If the programmed DICOM Storage Node can only display images in square size, set the check mark.

DICOM Worklist Node entries

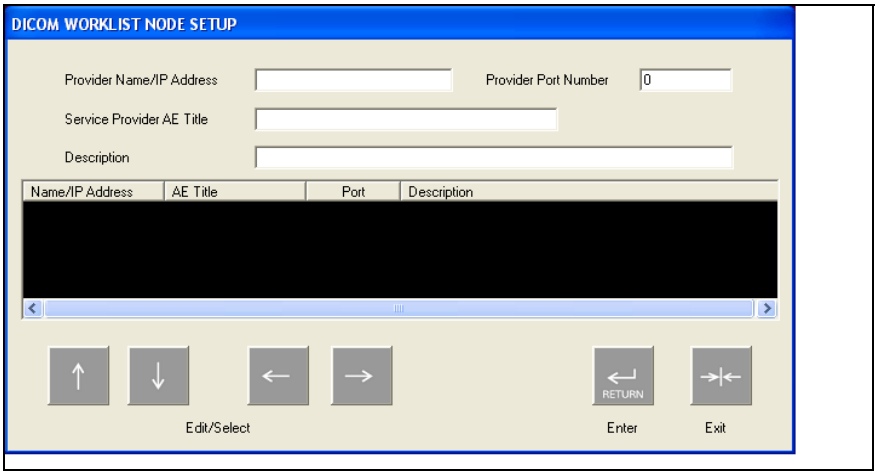

Fig. 10 User Setup DICOM settings

The Technical Setup is still open.

- Select "DICOM Worklist Setup".
- Enter the corresponding data and confirm in each case by pressing the Return key.
- After the entry of the required data for a DICOM Worklist Node press the keys "CTRL + A" simultaneously. The data are transferred to the text field.
- After entry of the first DICOM Worklist Nodes additional DICOM Worklist Nodes can be entered.
- Close the "DICOM Worklist Node Setup" window again.
- Confirm the prompt for saving the data by pressing the Return key.

Technical Setup System Configuration DICOM Worklist Node Setup	Provider Name / IP Address	IP address of the first DICOM Worklist Nodes (e.g. 192.168.20.3) When using DHCP enter the host name of the DICOM Storage Node.
	Provider Port Number	104 (default) Change only on administrator instructions.
	Service Provider AE Title	AE Title of the first DICOM Worklist Node (e.g. DICOM_Worklist)
	Description	Name of the Worklist Node, displayed in the user menu of the Memoskop CX 200

DICOM Printer Node entries

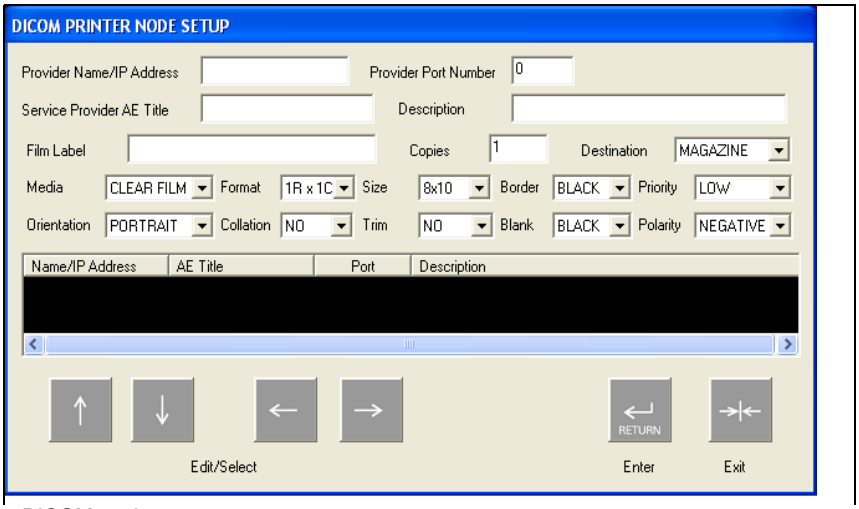

Fig. 11 User Setup DICOM settings

The Technical Setup is still open.

- Select "DICOM Print Setup".
- Enter the corresponding data and confirm in each case by pressing the Return key.
- After entering the required data for a DICOM Printer Node press the keys "CTRL + A" simultaneously. The data are transferred to the text field.
- After entry of the first DICOM Printer Node additional DICOM Printer Nodes can be entered.
- Close the "DICOM Printer Node Setup" window again.
- Confirm the prompt for saving the data by pressing the Return key.

Technical Setup System Configuration DICOM Printer Node Setup	Provider Name / IP Address	IP address of the first DICOM Printer Node (e.g. 192.168.20.4) When using DHCP enter the host name of the DICOM Storage Node.
	Provider Port Number	104 (default) Change only on administrator instructions.
	Service Provider AE Title	AE Title of the first DICOM Printer Node (e.g. AGFA_Drystar)
	Description	Name of the Printer Node, displayed in the user menu of the Memoskop CX 200

	Film Label	Required standard label of the film for printout of this Siremobil Compact L.
	Copies	1 (default) Select number of required film copies.
	Media	Select film medium.
	Format	Select required film segmentation.
	Size	Select film format.
	Border	Select film border (black or unexposed).
	Priority	LOW (default) Do not change.
	Orientation	Select image orientation.
	Collation	NO (default) Do not change.
	Trim	NO (default) Do not change.
	Blank	Area without image information (black or unexposed)
	Polarity	Negative (default) corresponds to monitor image Positive corresponds to X-ray film

Backup Memoskop CX200 parameters

After completing the customer-specific programmings, save these on the Backup CD-ROM (see log book) and file them in the log book or system folder.

The Technical Setup is still open.

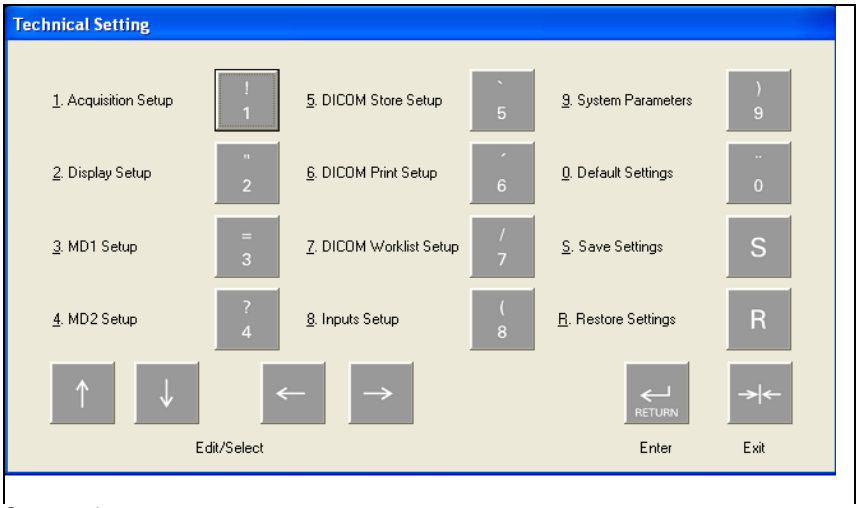

Fig. 12 Technical Setup main menu

- Take the Backup CD-R from the log book and insert it in the CD drive of the Memoskop CX200.
- In the main menu of the Technical Setup select "Save Settings" ("S" key).
- Follow the menu guidance on the Memoskop.
- After saving the parameters remove the CD-R from the drive.
- Close the technical setup.
- Switch the system off and on again.
- File the CD-R in the log book.

Function tests

Refer to the operating instructions for operation of the SIREMOBIL Compact Lt

- Electronics cabinet movements and movements of the C-arm system
- Mechanical functions of the monitor trolley
- Semi-transparent slot collimator and iris collimator
- Display of semi-transparent slot collimator and iris collimator
- Image intensifier format switch-over
- Image reversal
- Image position and image rotation
- Image storage functions
- Fluoroscopy / Pulsed Fluoroscopy
- Image storage (ATB and LIH functions)
- Digital Radiography (DR)
- Subtraction option
- Roadmap option
- Direct exposure option
- Dicom Storage option
- Dicom Worklist option
- Dicom Print option
- Laser light localizer option
- Area dose product option: indication $cGy * cm^2$
- Codonics printer option
- Video printer option
- Video tape recorder option

Recorded tests

- The required certificates and directions are filed with the logbook.

Organ programs

- On change of the preset organ programs or in the case of a SIREMOBIL Compact L system without MEMOSKOP keyboard, print out the programmed values with the aid of the MEMOSKOP service program and file them in the operating instruction "Charts and diagrams" chapter.

IQ quick test

- Perform the image quality quick test.

C-arm movements

- In the SIREMOBIL Compact L check the movements of the C-arm system and confirm them in the report (Chapter 2 of these instructions).
  Refer to the operating instructions in the Basic system register, under system movements.

Protective conductor test

Observe the information on the protective conductor test in these instructions.

- If performance of the protective conductor test is required, perform this with closed system according to ARTD-002.731.17... .
  The protective conductor resistance must not exceed 0.2 ohms.
- Record the determined values as first measured values in the protective conductor resistance report (Chapter 3 of these instructions) stating the measuring points.
- In addition document the measuring method and the measuring instrument used (designation and serial number).
- Separate the page with the report from these instructions and file it in the system folder or logbook, "Reports" register.

System leakage current measurement

Observe the information on the system leakage current measurement in these instructions.

- If performance of the system leakage current test is required, perform this with closed system according to ARTD-002.731.17... .
  The limit of 2.5 mA must not be exceeded.

⚠WARNING

Electrical voltage!
Non-compliance can lead to severe injuries up to death.

The system leakage current measurement may be performed for units of protective class I only after the protective ground wire test has been passed.

In the direct measurement of the system leakage current (measuring arrangement according to Fig. 3) no housing parts of the system may be touched during the measurement.
Access to the system for third persons must be prevented.

- The system must be switched on during the measurement. Measuring instruments with automated measuring sequence must therefore be set to manual measurement.
- Enter the highest value as first measured value in the system leakage current report (Chapter 3 of these instructions).
- This value must not exceed the permissible leakage current values according to DIN VDE 0751-1:2001-10, Table F.1, line "system leakage current for units according to the remarks 1 and 3" of 2.5 mA.
- Measure and record the current line voltage. If the measured line voltage deviates from the nominal voltage, correct the measured value to the value that corresponds to a measurement at the nominal value of the line voltage.
- Document the measuring method (differential measurement or direct measurement) and the measuring instrument used (designation and serial number.
- Separate the completed report page from these instructions and file it in the system folder or logbook with the existing reports.

Customer documents

Hand over the customer documents to the customer.

Country-specific acceptances

- Perform country-specific acceptances (DHHS / RöV ...)

Installation report

NOTE

The manufacturer of this product requires information and the legislator required evidence as to whether a product delivered without defects from the factory continues to have the required and certified quality properties after installation and start-up.

Therefore it is absolutely necessary that the installation report with the installation and start-up data is sent promptly after completion of the work to the address stated on the installation report.

You will find the installation report in the system folder or logbook of the product.

- Complete the installation report and send it promptly to the address stated on the report.

C-Arm Movements

System: Siremobil Compact L

Material part number:.....

Serial number: .....

Customer specific ident number: .....

Movement	OK / Not OK	Name	Date	Initials
Brake release/lock				
Upward movement position 1				
Downward movement position 2				
The warning signals sound off as described				
Function of the emergency stop button				

Tab. 1

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Protective conductor resistance report

System: .....

Material number:.....

Serial number: .....

Customer-specific ident number.....

	Protective conductor resistance					
	First measured value	Repeat measurements measured value				
Measuring point1: _____						
Measuring point 2: _____						
Measuring point 3 _____						
Measuring point 4 _____						
Measuring point 5 _____						
Measuring point 6 _____						
Measuring point 7 _____						
Measuring point 8 _____						
(*1) Measuring circuit						
Measuring instrument Type:						
Measuring instrument Ser No.:						
Measuring instrument calibrated to:						
Assessment:	n.a.					
Date:						
Name:						
Signature						

Tab. 1

(*1) Measuring circuit: See Fig. 1, next page

Measuring circuit

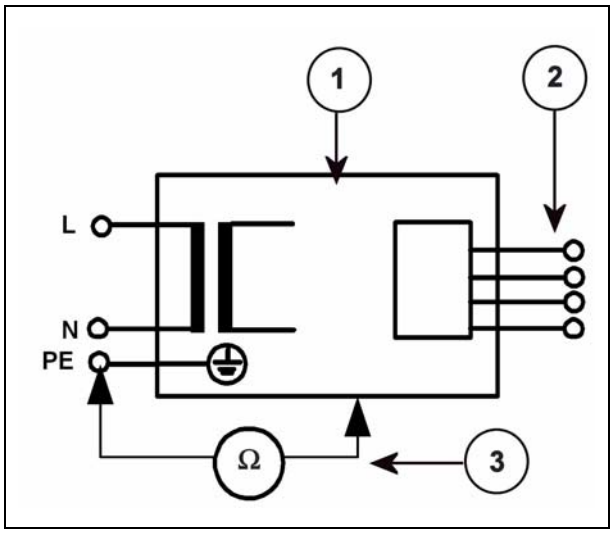

Fig. 1 Measuring circuit for measuring the protective conductor resistance for units that are separated from the power supply according to DIN VDE 0751-1:2001-10, Fig. C2.
1 = Measuring arrangement (measuring instrument)
2 = System
3 = Application part (if available)

Remarks:

Date	Remark	Name	Signature

Tab. 2

System leakage current report

System: .....

Material number:.....

Serial number: .....

Customer-specific ident number.....

Dystem leakage current						
	First measured value	Repeat measurements Measured value				
System leakage current (highest measured value) [mA]						
Line voltage during the measurement [V~]						
System leakage current, corrected value [mA]						
(*1) Measuring circuit:						
Measuring instrument Type:						
Measuring instrument Ser-No.:						
Measuring instrument calibrated to:						
Assessment:						
Date:						
Name:						
Signature:						

Tab. 3

(*1) Measuring circuit: See Fig. 2 and Fig. 3, next page

Measuring circuit

Direct measurement.

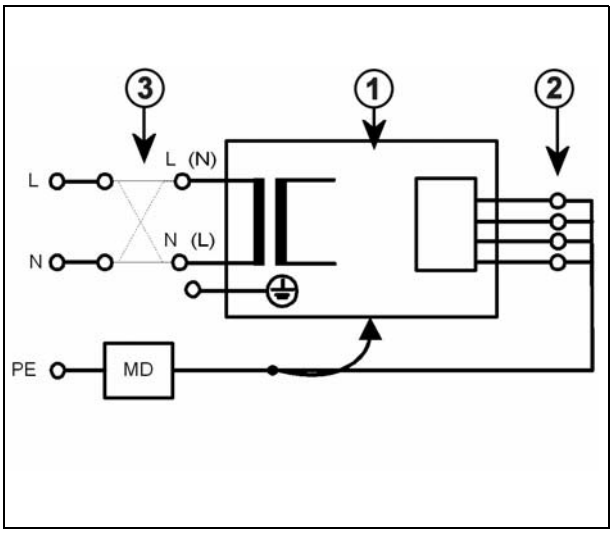

Fig. 2 Measuring circuit for direct measurement of the System leakage current according to DIN VDE 0751-1:2001-10, Fig. C5 for protective class I.
1 = System
2 = Application part I (if available)
3 = Measuring arrangement (integrated in the measuring instrument)

Differential measurement

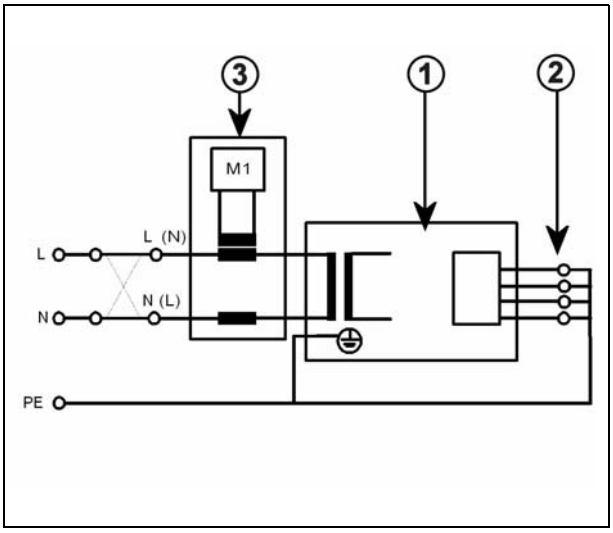

Fig. 3 Measuring circuit for direct measurement of the System leakage current according to the differential current method according to DIN VDE 0751-1:2001-10, Fig. C6 for protective class I.
1 = System
2 = Application part I (if available)
3 = Measuring arrangement (integrated in the measuring instrument)

Remarks:

Date	Remark	Name	Signature

Tab. 4

Date	Remark	Name	Signature

Tab. 4

Changes to the previous version 4 - 1

Chap. 0 to 4 n.a. (new document).

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